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I Claim:

1. An optical beacon for aligning optical elements, comprising:

a rigid body comprising at least one connection point, whereby at least one of said optical elements can be rigidly connected to said body;

at least one light source rigidly connected to said body, wherein said light source is located a known distance in a known direction from said at least one connection point;

switching means for switching said at least one light source independently of any other said at least one light source; and

at least one aperture, wherein light from said at least one light source passes through said aperture to space outside said body, whereby the divergence of said light is limited.

- 2. The optical beacon of claim 1, wherein said body further comprises said at least one aperture.
- 3. The optical beacon of claim 1, further comprising at least one mask comprising said at least one aperture.

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4. The optical beacon of claim 3, wherein said at least one mask is rigidly connected to said body.

5. The optical beacon of claim 3, wherein said at least one mask is rigidly connected to said at least one light source.

6. The optical beacon of claim 1, wherein said distance is within one meter (1 m).

7. The optical beacon of claim 1, wherein said distance is within one hundred millimeters (100 mm).

8. The optical beacon of claim 1, wherein said distance is within ten millimeters (10 mm).

9. The optical beacon of claim 1, wherein said distance is within two millimeters (2 mm).

10. The optical beacon of claim 1, wherein said at least one light source

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comprises a light-emitting diode.

The optical beacon of claim 1, wherein said switching means further 11.

2 comprises:

at least one common conductive path, and

at least one unique conductive path;

wherein said at least one light source further comprises two (2) terminals, wherein one of said terminals is electrically connected to said at least one common conductive path, and the other of said terminals is electrically connected uniquely to said at least one unique conductive path.

The optical beacon of claim 1, wherein said body further comprises at 12. least part of said switching means.

The optical beacon of claim 12, wherein said at least part of said 13. switching means comprises at least one conductive trace.

The optical beacon of claim 1, wherein at least part of said switching 14. means comprises wire.

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15. The optical beacon of claim 1, wherein said body comprises ceramic.

16. The optical beacon of claim 1, wherein the linear axial dimension of

said at least one aperture is greater than its greatest linear dimension

perpendicular to its axis.

17. The optical beacon of claim 1, wherein said at least one aperture

comprises at least one linear edge.

18. The optical beacon of claim 1, wherein said at least one aperture

comprises at least one curved edge.

19. The optical beacon of claim 1, wherein said at least one connection

point comprises a two-dimensional array of at least two connection points by

at least two connection points.

20. A method of generating an optical beacon signal for aligning of optical

elements, comprising the steps of:

activating at least one light source rigidly connected to a rigid body,

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wherein said at least one light source is located a known distance in a known direction from at least one of said optical elements rigidly connected to said rigid body, wherein said activating is done independently of any other said at

least one light source; and

comprised by said body.

limiting the divergence of light from said at least one light source.

21. The method of generating an optical beacon signal of claim 20, wherein said limiting of divergence is done by at least one aperture

- 22. The method of generating an optical beacon signal of claim 20, wherein said limiting of divergence is done by at least one aperture comprised by an at least one mask rigidly connected to said body.
- 23. The method of generating an optical beacon signal of claim 20, wherein said limiting of divergence is done by at least one aperture comprised by an at least one mask rigidly connected to said light source.
- 24. The method of generating an optical beacon signal of claim 20,

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wherein said distance is within one meter (1 m).

25. The method of generating an optical beacon signal of claim 20,

wherein said distance is within one hundred millimeters (100 mm).

26. The method of generating an optical beacon signal of claim 20,

wherein said distance is within ten millimeters (10 mm).

27. The method of generating an optical beacon signal of claim 20,

wherein said distance is within two millimeters (2 mm).

28. The method of generating an optical beacon signal of claim 20,

wherein said at least one light source comprises a light-emitting diode.

29. The method of generating an optical beacon signal of claim 20,

wherein said body comprises ceramic.